

DRAWINGS:

Figure 9 has been amended to correct typographical errors. "R7" of the third and fourth DEP operations have been replaced with "R13" and "R16", respectively. The third operation should now read as "DEP R4 = R4, R13, 32, 16", and the fourth operation should now read as "DEP R4 = R4, R16, 48, 16".

Amendments to **Figure 9** are fully supported in the original specification on page 11, paragraphs 2 and 3, and **Figure 8**. For example, the explanation of **Figure 9** on page 11 of the specification states, "...a series of deposit operations copy, in succession, E0, E1, E2, and E3 into register R4." **Figure 8** is explained illustrates that E2 and E3 were held in R13 and R16, respectively. Prior to amendment, **Figure 9** mistakenly illustrated R7 in the third and fourth operation instead of R13 and R16, where E2 and E3 are held.

The above amendments do not add any new matter. They merely correct typographical errors. A clean version of **Figure 9** has been enclosed in addition to the redline copy.

REMARKS

The enclosed is responsive to the Examiner's Final Office Action mailed on April 21, 2005 and is being filed pursuant to a Request for Continued Examination (RCE) as provided under 37 CFR 1.114. At the time the Examiner mailed the Office Action claims 1-22 were pending. By way of the present response the Applicants have: 1) amended claims 1, 8, and 14; 2) added no new claims; and 3) canceled no claims. As such, claims 1-22 are now pending. The Applicants respectfully request reconsideration of the present application and the allowance of all claims now presented.

35 U.S.C. §102 Rejections

Claims 1-4, 8-11, 14-17, and 21-22 stand rejected under 35 U.S.C. 102(b) as being anticipated by Austin, et al., U.S. Patent No. 3,163,850 (hereinafter "Austin").

Applicant respectfully submits that Austin does not disclose or suggest features recited in Claims 1, 8, and 14. Specifically, Austin does not disclose or suggest adding the base address to each index to compute the addresses for the gather and scatter commands. In fact, Austin is limited by the use of an address adder 103 with inputs: increment value 101 and start address 52. Under Austin, after the calculation of the second address (which equals the start address plus the increment value), an address is computed by adding the previously computed address plus the set increment value.

One limitation of Austin is that, for example, a fifth address cannot be calculated until the first four addresses are calculated. Hence, one advantage of the present set of claims is that each address calculation can be performed independently of the other address calculations. Another advantage of the present set of claims is that the spacing of indices does not have to be uniform, as with the use of an increment value. It should be noted that the above described advantages of the current invention is not conceived to be the only advantages of the present invention.

The language added to claims 1, 8, and 14 are illustrated in Figure 7 and fully supported in the original specification on page 11, lines 3-6: "...the base address is **added to each** of the indices in R5, R8, R11, and R14..." [emphasis added].

Since independent claims 1, 8, and 14 now overcome the objections under Austin, all dependent claims would also overcome Austin. Hence, the Applicant respectfully requests that independent claims 1, 8, and 14 and all their dependent claims be allowed.

35 U.S.C. §103 Rejections

Claims 5, 7, 12, 13, 18, 20 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Austin, and Claims 6 and 19 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Austin in view of McDonnell et al., U.S. Patent No. 2,968,027 (hereinafter "McDonnell").

Since claims 5-7, 12, 13, and 18-20 depend from independent claim 1, 8, or 14 and include additional features, Applicant respectfully submits that all claims are in condition for allowance.

CONCLUSION

Applicant respectfully submits that all rejections have been overcome and that all pending claims are in condition for allowance.

If there are any additional charges, please charge them to our Deposit Account Number 02-2666. If a telephone conference would facilitate the prosecution of this application, the Examiner is invited to contact Thomas C. Webster at (408) 720-8300.

Respectfully Submitted,
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: 9/20, 2005



Thomas C. Webster
Reg. No.: 46,154

12400 Wilshire Boulevard
Seventh Floor
Los Angeles, CA 90025-1026
(408) 720-8300

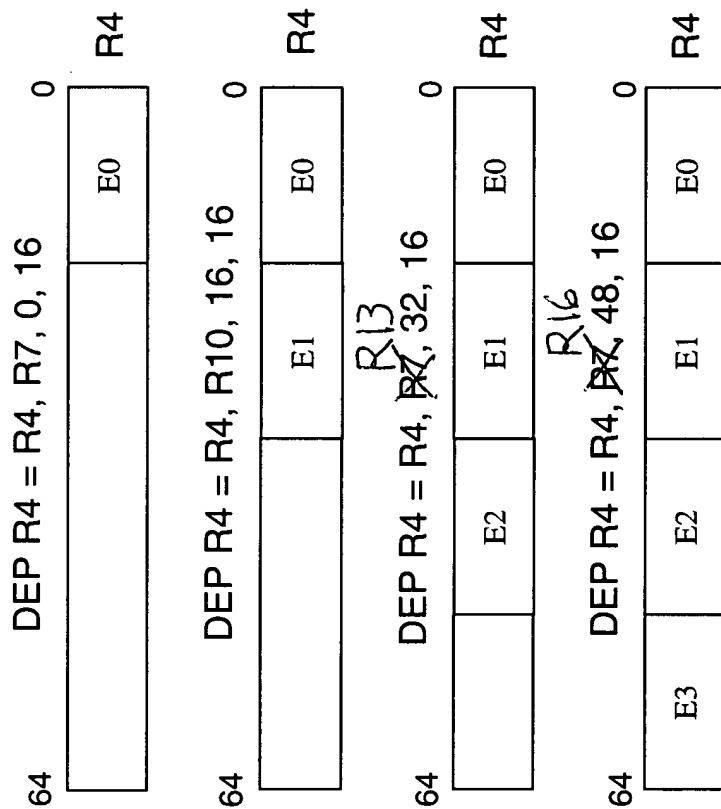


FIG. 9